## IN THE UNITED STATES PATENT & TRADEMARK OFFICE

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Applicant:

Mazany, et al.

Examiner: P. Marcantoni

Serial No.:

09/871,765

Group Art Unit:

1755

AUG 1 2 2004

Filed:

June 1, 2001

Date:

August 12, 2004

For:

INORGANIC MATRIX COMPOSITIONS COMPOSITES AND PROCESS

OF MAKING THE SAME

Mail Stop 313 (c) Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450



## INFORMATION DISCLOSURE STATEMENT

Sir:

This invention relates to a modified alkali silicate composition for forming an inorganic network. The modified alkali silicate matrix is made by reacting an alkali silicate (or its precursors such as an alkali hydroxide, a SiO2 source and water), an acidic oxoanionic compound such as phosphoric acid, water and optionally one or more multivalent cation(s) selected from Groups 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 or 16 of the periodic table such as an alkaline earth salt, and optional processing aids. An inorganic matrix composite can be prepared by applying a slurry of the modified aqueous alkali silicate composition to a reinforcing medium and curing the composite at a temperature from about 15°C up to about 1000°C+ and a pressure from about ambient up to about 20,000 psi, and optionally under a vacuum of about ambient to about 10°3 torr. The composite can be shaped by compression molding as well as other known fabrication methods.

As authorized and encouraged under 37 C.F.R. §1.97-1.99, applicant hereby cites as a means of complying with the duty of disclosure set forth in 37 C.F.R. §1.56, the following patents and/or documents, required copies enclosed, which the Examiner should consider with respect to the above-identified United States Patent Application:

U.S. DOCUMENTS									
PATENT/DOCUMENT NO.	DATE	INVENTOR							
3,933,689	January 20, 1976	. Ray et al.							
3,935,018	January 27, 1976	Ray et al.							
3,964,919	June 22, 1976	Ray et al.							
3,989,532	November 2, 1976	Ray et al.							
4,888,311	December 19, 1989	Davidovits et al.							
4,936,939	June 26, 1990	Woolum							
FOREIGN DOCUMENTS									
PATENT/DOCUMENT NO.	DATE	COUNTRY							
32 46 604	June 20, 1984	DE							
ARTICLES/OTHER DOCUMENTS									
Chemical Abstracts, vol. 85, no. 8, 23 August 1976; abstract no. 51069s, M. Tanaka: "Nonflammable inorganic foam" XP000063264									
Chemical Abstracts, vol. 93, no. 4, 28 July 1980, abstract no. 308J0w, J. Ueda et al. "Hardening and Waterproofing soft ground" XP000063866									
Chemical Abstracts, vol. 103, no. 6, 12 August 1985, abstract no. 41661e, "Stabilization of weak foundations" XP000064227									
Chemical Abstracts, vol. 103, no. 12, 23 September 1985, abstract no. 92158d, "Strengthening of soil foundation with neutral grout" XP000064371									

In accordance with 37 CFR 1.98(a)(2)(i) enclosed are copies of only the foreign and non-patent documents for the express purpose of providing the Patent and Trademark Office with an ample opportunity to evaluate the same and to arrive at an independent assessment of its materiality, if any, with regard to the examination of the application.

In reviewing the enclosed copy of the above publication, the Examiner is requested to ignore any underscoring or highlighting which may appear because such markings may or may not have any relationship to the subject matter of the above-identified application. The copy being submitted with this Information Disclosure Statement is the best copy available at this time.

An examination of the present application considering the above documents is requested.

Respectfully submitted,

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Attorney Docket No.: 200EP006 (GOODR-A-1-RCE)

Sheet 1 of 2

Form PTO-1449	49 U.S. Department of Commerce Patent and Trademark Office			Atty, Docket No.: 200EP006 (GOODR-A-1-RCE)		Serial No.: 09/871,765				
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				Applicant: Mazany et al. Filing Date: June 1, 2001		Group: 1755				
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	AB	3,935,018			Ray et al.					
	AC	3,964,919	June 22, 1	976	Ray et al.					
	AD	3,989,532	November 2,	1976	Ray et al.					
	AE	4,888,311	December 19,	1989	Davidovits et al.					
	AF	4,936,939	June 26, 1	990	Woolum		,			
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	AR		Chemical Abstracts, vol. 85, no. 8, 23 August 1976; abstract no. 51089s, M. Tanaka: "Nonflammable inorganic foam" XP000063264							
	AS	Chemical Abstra Waterproofing s	Chemical Abstracts, vol. 93, no. 4, 28 July 1980, abstract no. 308J0w, J. Ueda et al. "Hardening and Waterproofing soft ground" XP000063866							
	АТ	Chemical Abstracts, vol. 103, no. 6, 12 August 1985, abstract no. 41661e, "Stabilization of weak foundations" XP000064227								
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Sheet 2 of 2 Serial No.: 09/871,765 Atty. Docket No.: Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office 200EP006 (GOODR-A-1) LIST OF PRIOR ART CITED BY APPLICANT Applicant: Mazany et al. (Use several sheets if necessary) Filing Date: June 1, 2001 Group: 1755 U.S. PATENT DOCUMENTS Class Subclass Filing date if Date Examiner Document appropriate Initial Number ΔΔ ΑB AC ΑD ΑE AF AG AΗ Αl AJ AK-FOREIGN PATENT DOCUMENTS Date Country Class Subclass Translation Document Yes No Number ΑŁ AM AN AO ΑP OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) Chemical Abstracts, vol. 103, no. 12, 23 September 1985, abstract no. 92158d, "Strengthening of soil AR foundation with neutral grout" XP000064371 A\$ AT EXAMINER DATE CONSIDERED \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.